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U.S. DEPARTMENT OF COMMERCE NOAA, NATIONAL WEATHER SERVICE

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

TO: NATIONAL WEATHER SERVICE (W/OH12x1)
HYDROMETEOROLOGICAL INFO CENTER
1325 EAST-WEST HIGHWAY, RM 7116
SILVER SPRING, MD 20910

HSA OFFICE:	
Marguette, M	ı

REPORT FOR (MONTH/YEAR):

March 2012

DATE: **May 22, 2012**

SIGNATURE:

Robin J. Turner, MIC Justin Titus, Meteorologist

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (WSOM E-41).



An X inside this box indicates no flooding occurred within this Hydrologic Service Area.

March Flooding

No significant flooding or impacts from flooding were reported to the National Weather Service. However, due to rapid snowmelt from warm temperatures in March, several rivers and streams exceeded bankfull stage.

March Precipitation

March precipitation was near or below normal at most locations across Upper Michigan. However, record to near record warmth in March acted to melt the snow pack over roughly a ten day period from early to mid March, created increased runoff into area streams.

Below is a chart of some of the larger cities in the Upper Peninsula, with monthly precipitation in inches, the amount of inches above or below normal for the month and any applicable record high or low rank.

Location	Precipitation	Above/Below	Rank	Snowfall	Above/Below	Rank
WFO Marquette	2.47	-0.31		28.9	0.0	
Marquette City	1.39	-0.52		15.8	-2.3	
Houghton Airport	1.95	0.13		16.4	-2.3	
Ironwood	2.06	-0.01		14.9	-5.2	
Iron Mountain	1.71	0.10		9.3	-0.7	
Manistique	2.21	-0.53		15.5	4.8	
Munising	2.08	0.07		21.5	4.3	
Ontonagon	1.60	-0.10		10.0	-8.0	9 th

Other monthly precipitation totals from coop observers:

Location	Precipitation	Snowfall
	(inches)	(inches)
Amasa (Iron County)	1.44	13.0
Atlantic Mine (Houghton County)	3.04	28.8
Baraga 7NW (Baraga County)	1.14	6.5
Bergland Dam (Ontonagon County)	2.82	12.5
Big Bay (Marquette County)	2.47	19.0
Big Bay 9SW (Marquette County)	3.05	21.2
Chatham (Alger County)	1.41	25.5
Clarksburg (Marquette County)	1.60	17.2
Cooks (Schoolcraft County)	2.40	14.4
Copper Harbor (Keweenaw County)	1.41	4.7
Garden Corners (Delta County)	1.99	14.1
Gladstone (Delta County)	1.95	13.5
Greenland (Ontonagon County)	2.32	14.6
Gwinn (Marquette County)	0.76	7.4
Harvey (Marquette County)	1.23	20.5
Herman (Baraga County)	2.25	27.7
Ishpeming 7NNE (Marquette County)	3.93	43.2
Jacobsville (Houghton County)	2.80	12.3
Mohawk (Keweenaw County)	2.55	18.3
Menominee (Menominee County)	M	M
Norway (Dickinson County)	2.02	10.7
Painesdale (Houghton County)	1.98	23.0
Stambaugh (Iron County)	1.09	12.8
Twin Lakes (Houghton County)	2.21	15.5
Watersmeet (Gogebic County)	2.06	17.5
Watton (Baraga County)	1.82	16.7

Drought Discussion

According to the April 3rd, 2012 release of the U.S. Drought Monitor, the Keweenaw Peninsula and northern Huron Mountains were classified under Moderate (D1) Drought. Otherwise, areas roughly west of a line from Munising to Iron Mountain were classified as Abnormally Dry (D0). East of this line, no drought was indicated. The drought continues due to long term precipitation deficits.

For the latest drought status, please go to http://www.drought.unl.edu/dm/monitor.html.

March Temperatures

Below is a table of some of the larger cities in the Upper Peninsula, with average monthly temperature and number of degrees above or below normal for the month, and the rank of an all-time warmest or coldest month, where applicable.

Location	Temperature	Above/Below	Rank
	(degrees)		
WFO Marquette	39.7	15.3	2^{nd}
Marquette City	40.4	13.2	1 st
Houghton Airport	39.2	15.2	1^{st}
Ironwood	41.2	15.8	1 st
Iron Mountain	41.6	14.4	1 st
Manistique	36.9	10.2	2^{nd}
Munising	38.8	12.8	1 st
Ontonagon	44.2	15.2	1 st

March River Levels

According to the United States Geological Survey, March streamflow was much above normal in Lake Superior drainage basins, and above normal in Lake Michigan drainage basins.

March Products Issued

Flood Warnings (FLW): 0
Flood Advisories (FLS): 4
River Statements (RVS): 6
Flash Flood Watches (FFA): 0
Flash Flood Warnings (FFW): 0
Flash Flood Statements (FFS): 0